



Consumer

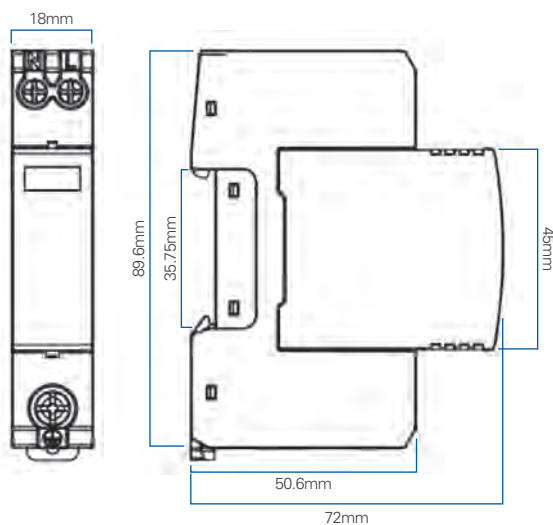
# Surge Protection Device

## Specifications and Dimensions

Part No: ERSSPD12/240

- Ideal for domestic installations
- Can be used on TNS, PME and TT systems
- Back up MCB: 32A or less
- Cable Size: 1.5mm – 6mm
- This device is earth leakage free and may be connected before or after RCD/RCBO circuit protection
- This surge protection device is easy to install - please see instructions
- Indication window:  
Green = Normal  
Red = Fault
- Type: 2+3

### Dimensions



Full range of  
Eris Consumer  
devices available

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## Technical Specification

Model	1P+NPE / 3P+NPE					
Maximum continuous AC operating voltage $U_c$	36V	150V	275V	320V	385V	440V
SPD installation type conforms to EN61643-1	Class II					
Nominal Discharge Current (8/20 $\mu$ s)	20kA					
Maximum Discharge Current (8/20 $\mu$ s)	40kA					
Voltage protection level up	$\leq 0.6kV$	$\leq 1.0kV$	$\leq 1.5kV$	$\leq 1.8kV$	$\leq 1.8kV$	$\leq 2.0kV$
Response time $t_A$	$\leq 25ns$					
Indication method	Visible window, Green=normal, Red=fault					
Min. sectional area of incoming wire L/N	4mm <sup>2</sup>					
Min. sectional area of incoming ground wire PE	6mm <sup>2</sup>					
Method of Installation	35mm Din Rail					
Material of Shell	PBT UL94-V0					
Protection Level of Outer Shell	IP20					
Width of module	1P+NPE 1 module, DIN 43880 / 3P+NPE 2 module, DIN 43880					
Working Temperature	-40°C up to +80°C					



**Please note:** The device must be installed by a qualified electrician in accordance with the latest edition of the IET Wiring Regulations for electrical installations BS7671. You only require one SPD per board and all your outgoing circuits will be protected. To carry out insulation test, remove the earth cable to the device or do the test at a reduced voltage 250V DC max. Failure to conform to this advice may result in damage to the device.

## Installation

- 1) Switch off power supply when connecting the surge protection device to the system
- 2) Mount device on 35mm DIN rail
- 3) Cable connecting length must be 500mm or shorter to reduce the influence of distributed inductance on lightning discharge
- 4) If remote alarm is required it should be connected to remote signal
- 5) Switch on power supply and turn on the circuit breaker, if the SPD's window appears green this indicates that the unit is operating normally
- 6) Make sure that the SPD is regularly inspected especially after lightning. If the signal light is on or the buzzer sounds, turn power off and check or replace the SPD

## Wiring diagram

